

## FORTHCOMING PUBLICATIONS (A)

MARCH 2001, Vol. 75, No. 2

### **Rapid Communication**

Observation of successive phase transitions in ferroelectric liquid crystal (CS-1013) from dielectric measurements and a pseudospin type model for studying ferro and antiferroelectric behaviour

S K KUNDU, E OKABE, B K CHAUDHURI AND W HAASI

### **Condensed Matter & Materials Physics**

Hydrothermal crystallization and electrical conductivity of aluminophosphate zeolites

B V SURESH KUMAR AND K BYRAPPA

Multiple scattering : a theoretic approach to nonlinear mechanical property of composites

SUDESHNA SARKAR, ASIS KUMAR GHORAI AND T R MIDDYA

Growth and characterization of antimony thiourea bromide (ATB)

G KANCHANA AND D ARIVOULI

Spin glass like behaviour of a mixed-metal molecule-based magnetic material  $\text{NBu}_4\text{Co}^{\text{II}}[\text{Fe}^{\text{III}}_0.5\text{Cr}^{\text{III}}_0.5(\text{ox})_3]$ ,  $\text{Bu}_4 = n\text{-(C}_4\text{H}_9)_4$ , ox = oxalate

A BHATTACHARJEE, R FLYERHERM AND M SEFINER

Synthesis and characterisation of  $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Li}_{1/4}\text{La}_{1/4}\text{W}_{1/2})\text{O}_3$  ceramics

TANIKA KAR, R N P CHOUDHARY AND S BERA

Effect of copper doping on phosphorescence of  $\text{CaS} : \text{Er}$  phosphors

C S GUPTA

Room temperature chemical bath deposition of  $\text{Sb}_2\text{Se}_3$  thin films from alkaline medium

B R SANKAPAL AND C D LOKHANDI

Nuclear spin-lattice relaxation of  $I = 3/2$  quadrupole spin-system due to domain-walls in order-disorder ferroelectrics

MRIGNAYANI KOTECHE AND LAKSHMAN PANDY

FTIR spectroscopic and thermal studies of calcium tartrate trihydrate crystals grown by gel assistance

VIMAL S JOSHI AND MIHIR J JOSHI

### **Nuclear Physics**

Yield of isomers in  $^{76}\text{Ge}(635 \text{ MeV}) + ^{198}\text{Pt}$  deep-inelastic collision and their dependence on projectiles ( $^{74,76}\text{Ge}$ ) and beam energies (635, 550 MeV)

I HOSSAIN, T ISHII, M OGAWA, M ASAI, A SHILLEY AND MAKISHIMA

Pseudo-rapidity distribution for  $\text{C}^{12}$ ,  $\text{O}^{16}$ ,  $\text{Si}^{28}$  and  $\text{S}^{32}$  on nuclear emulsion

MOHAMED EL-MASHAD

[ Cont'd. on next page ]

***Particle Physics***

Non-singlet structure function at high  $x$  and neutrino scattering

D. K. CHOUDHURY AND ABIR DESHMUKHYA

***Notes***

Maximum fluctuations on pion density in relativistic heavy ion interactions

DIPAK GHOSH, ARGHA DEB, TAYLA GHOSH, SWARNAPRATIM BHATTACHARYYA  
AND KANCHAN KUMAR PATRA

On determination of phase function from phase shift

I. AHMED AND TAMEEM MADANI

Photophysics of 6-methoxyquinoline in n-dodecyl polymer matrix

M. S. MEHTA AND H. B. TRIPATHI

Polarization analysis of neutron elastic scattering by  $^9\text{Be}$

F. A. EL-AKKAD